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l6 and metal oxide.ti.	24

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L7

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L7</u>	l6 and metal oxide.ti.	24	<u>L7</u>
<u>L6</u>	L3 and v and (TE and sb and se)	76	<u>L6</u>
<u>L5</u>	L4 and mo and w	224	<u>L5</u>
<u>L4</u>	L3 and v and (TE or sb or se)	237	<u>L4</u>
<u>L3</u>	L2 and (mo and IR)	496	<u>L3</u>
<u>L2</u>	L1 and (562/\$ or 502/\$)	9587	<u>L2</u>
<u>L1</u>	metal oxide and catalyst	42876	<u>L1</u>

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L7: Entry 1 of 24

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018208

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030018208 A1

TITLE: Halogen promoted multi-metal oxide catalyst

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Hefener, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: [558/338](#); [502/305](#), [562/547](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 20030013904 A1

L7: Entry 2 of 24

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013904

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013904 A1

TITLE: Mixed metal oxide catalyst

PUBLICATION-DATE: January 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Song, Ruozhi	Wilmington	DE	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: [558/321](#); [502/333](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 3. Document ID: US 20020183547 A1

L7: Entry 3 of 24

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020183547

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020183547 A1

TITLE: NOx treated mixed metal oxide catalyst

PUBLICATION-DATE: December 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gaffney, Anne Mae	West Chester	PA	US	
Haffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 562/546; 502/215, 502/304, 502/312, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 4. Document ID: US 20020143208 A1

L7: Entry 4 of 24

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143208

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143208 A1

TITLE: Promoted multi-metal oxide catalyst

PUBLICATION-DATE: October 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 562/542; 502/215, 502/304, 502/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 5. Document ID: US 20020133044 A1

L7: Entry 5 of 24

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020133044

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020133044 A1

TITLE: Promoted multi-metal oxide catalyst

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: 562/546; 502/304, 502/307, 502/309, 502/312

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[KWC](#) [Draw Desc](#) [Image](#)

☐ 6. Document ID: US 20020072629 A1

L7: Entry 6 of 24

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072629

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072629 A1

TITLE: Zn and/or Ga promoted multi-metal oxide catalyst

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Le, Dominique Hung Nhu	Upper Darby	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

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☐ 7. Document ID: US 20020065431 A1

L7: Entry 7 of 24

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065431

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020065431 A1

TITLE: Promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	
Nhu Le, Dominique Hung	Upper Darby	PA	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 20020062042 A1

L7: Entry 8 of 24

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062042

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062042 A1

TITLE: PROMOTED MULTI-METAL OXIDE CATALYST

PUBLICATION-DATE: May 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 20020062038 A1

L7: Entry 9 of 24

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062038 A1

TITLE: Ir and/or Sm promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 558/319; 502/302, 502/304, 502/306, 502/308, 502/309, 502/310, 502/312, 562/542

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 10. Document ID: US 20020058836 A1

L7: Entry 10 of 24

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020058836 A1

TITLE: PROMOTED MULTI-METAL OXIDE CATALYST

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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L7: Entry 11 of 24

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020058835 A1

TITLE: Halogen promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 16, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: [562/546](#); [502/254](#), [502/255](#), [562/547](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 12. Document ID: US 6504053 B1

L7: Entry 12 of 24

File: USPT

Jan 7, 2003

US-PAT-NO: 6504053

DOCUMENT-IDENTIFIER: US 6504053 B1

TITLE: Promoted multi-metal oxide catalyst

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 13. Document ID: US 6472552 B1

L7: Entry 13 of 24

File: USPT

Oct 29, 2002

US-PAT-NO: 6472552

DOCUMENT-IDENTIFIER: US 6472552 B1

TITLE: Promoted multi-metal oxide catalyst

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)

☐ 14. Document ID: US 6461996 B2

L7: Entry 14 of 24

File: USPT

Oct 8, 2002

US-PAT-NO: 6461996

DOCUMENT-IDENTIFIER: US 6461996 B2

TITLE: Halogen promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 15. Document ID: US 6407280 B1

L7: Entry 15 of 24

File: USPT

Jun 18, 2002

US-PAT-NO: 6407280

DOCUMENT-IDENTIFIER: US 6407280 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 16. Document ID: US 6407031 B1

L7: Entry 16 of 24

File: USPT

Jun 18, 2002

US-PAT-NO: 6407031

DOCUMENT-IDENTIFIER: US 6407031 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 17. Document ID: US 6403525 B1

L7: Entry 17 of 24

File: USPT

Jun 11, 2002

US-PAT-NO: 6403525

DOCUMENT-IDENTIFIER: US 6403525 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 18. Document ID: US 6383978 B1

L7: Entry 18 of 24

File: USPT

May 7, 2002

US-PAT-NO: 6383978

DOCUMENT-IDENTIFIER: US 6383978 B1

TITLE: Promoted multi-metal oxide catalyst



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5094990 A

L7: Entry 19 of 24

File: USPT

Mar 10, 1992

US-PAT-NO: 5094990

DOCUMENT-IDENTIFIER: US 5094990 A

TITLE: Iron-antimony-phosphorus-containing metal oxide catalyst for oxidation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 4709071 A

L7: Entry 20 of 24

File: USPT

Nov 24, 1987

US-PAT-NO: 4709071

DOCUMENT-IDENTIFIER: US 4709071 A

TITLE: Process for improving activity of tellurium containing metal oxide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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L7: Entry 21 of 24

File: USPT

Nov 24, 1987

US-PAT-NO: 4709070

DOCUMENT-IDENTIFIER: US 4709070 A

TITLE: Process for improving activity of tellurium containing metal oxide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 22. Document ID: US 4618593 A

L7: Entry 22 of 24

File: USPT

Oct 21, 1986

US-PAT-NO: 4618593

DOCUMENT-IDENTIFIER: US 4618593 A

TITLE: Process for improving activity of tellurium containing metal oxide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 23. Document ID: US 4590175 A

L7: Entry 23 of 24

File: USPT

May 20, 1986

US-PAT-NO: 4590175

DOCUMENT-IDENTIFIER: US 4590175 A

TITLE: Process for the production of antimony-containing metal oxide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 24. Document ID: US 4504599 A

L7: Entry 24 of 24

File: USPT

Mar 12, 1985

US-PAT-NO: 4504599

DOCUMENT-IDENTIFIER: US 4504599 A

TITLE: Method for production or activation of antimony-containing metal oxide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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